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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/541,896	03/30/2006	Gregory Yelland	671096.404USPC	6246
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SEED INTELLECTUAL PROPERTY LAW GROUP PLLC			SZMAL, BRIAN SCOTT	
701 FIFTH AVE			ART UNIT	PAPER NUMBER
SUITE 5400			3736	
SEATTLE, WA 98104				

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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)	
	10/541,896	YELLAND ET AL.	
	Examiner	Art Unit	
	Brian Szmal	3736	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 02 May 2011.
 2a) This action is **FINAL**. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-14, 16 and 18-25 is/are pending in the application.
 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
 5) Claim(s) _____ is/are allowed.
 6) Claim(s) 1-14, 16 and 18-25 is/are rejected.
 7) Claim(s) _____ is/are objected to.
 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on 07 July 2005 is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____ .
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)	5) <input type="checkbox"/> Notice of Informal Patent Application
Paper No(s)/Mail Date. _____ .	6) <input type="checkbox"/> Other: _____ .

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on May 2, 2011 has been entered.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

3. Claims 1-4, 6, 7, 9, 11-15 and 17-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Teicher et al (2004/0002636 A1) in view of Roenker (5,801,810) in view of Reeves (Visual imagery in backward masking, 1980).

Teicher et al disclose a means for diagnosing akathisia and further disclose presenting a visual test stimulus to the user for a predetermined test stimulus exposure duration; measuring a response form the user, the response providing information about a response time taken for the user to respond; repeating the steps to develop a user profile; calculating for each predetermined test stimulus exposure duration, a representative error rate that represents a proportion of measured responses that are

inaccurate; calculating the error rate comprises calculating a mean error for each response (the calculated percentage is a mean error rate); calculating a means response time for each stimulus duration; repetitions of the stimulus exposure are separated by a uniform time interval; one of two or more different stimuli are presented to the user; and each of the test stimuli are presented an equal number of times. See Paragraphs 0022 and 0030.

Teicher et al however fail to disclose masking the test stimulus by placing a mask over or in place of the entire test stimulus; providing information about the user's perception of a characteristic of the test stimulus; comparing the user profile to a reference profile and assessing cognitive impairment or visual impairment of the user; repeating the stimulus exposures for a range of predetermined exposure durations; presenting a focal point stimulus to the user before presenting the visual test stimulus; the predetermined exposure duration is between 10 ms and 300 ms; the user has a choice of two different responses for responding to each test stimulus; and a focal point presentation means for presenting a focal point stimulus to the user.

Roenker discloses a means for testing visual attention capabilities of a subject and further discloses masking the test stimulus by placing a mask over or in place of the entire test stimulus; providing information about the user's perception of a characteristic of the test stimulus; comparing the user profile to a reference profile and assessing cognitive impairment or visual impairment of the user; repeating the stimulus exposures for a range of predetermined exposure durations; presenting a focal point stimulus to the user before presenting the visual test stimulus; the predetermined exposure duration

is between 10 ms and 300 ms; the user has a choice of two different responses for responding to each test stimulus; and a focal point presentation means for presenting a focal point stimulus to the user. See Column 4, lines 20-58; and Column 6, lines 20-54.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the means of Teicher et al to include the use of a mask and comparing the acquired results to a reference, as per the teachings of Roenker, since it would provide a means of controlling the test stimulus exposure to the test subject, to acquire an accurate means of determining the response time. It also would have been obvious to one of ordinary skill in the art to present the test stimuli an equal number of times, since it would provide a means of determining an accurate average response from the application of the test stimuli.

Teicher et al and Roenker however fail to disclose the mask is comprised of an image having at least one filled circle.

Reeves discloses a means for applying a mask to a visual stimulus and further disclose the mask is comprised of an image having at least one filled circle. See at least Figures 2 and 3.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the combination of Teicher et al and Roenker to include the use of a mask comprised of at least one filled circle, as per the teachings of Reeves, since a filled circle would not have the same contour as the test stimulus and thus prevent a contour interaction between the test stimulus and the mask to provide more accurate results from the test subject.

4. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Teicher et al (2004/0002636 A1), Roenker (5,801,810) and Reeves (Visual imagery in backward masking, 1980) as applied to claim 1 above, and further in view of Hongo et al (5,345,944).

Teicher et al, Roenker and Reeves, as discussed above, provide a means for measuring responses to a visual stimulus and outputting the measurements, but fail to explicitly disclose an error rate curve chart representing the error rate.

Hongo et al disclose a means for medical diagnosis and further disclose an error rate curve chart representing the error rate. See Figure 11.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the combination of Teicher et al, Roenker and Reeves to include the use of an error rate curve, as per the teachings of Hongo et al, since it would provide an alternative means of outputting the information for expert analysis.

5. Claims 8 and 25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Teicher et al (2004/0002636 A1), Roenker (5,801,810) and Reeves (Visual imagery in backward masking, 1980) as applied to claims 1 and 22 above, and further in view of Harrison et al (6,317,128 B1).

Teicher et al, Roenker and Reeves, as discussed above, disclose a means for measuring responses to a visual stimulus and outputting the measurements but fail to explicitly disclose a response rate curve.

Harrison et al disclose a graphical user interface and further disclose the use of a response rate curve. See Figure 12.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the combination of Teicher et al, Roenker and Reeves to include the use of a response rate curve, as per the teachings of Harrison et al, since it would provide an alternative means of outputting the information for expert analysis.

6. Claim 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over Teicher et al (2004/0002636 A1), Roenker (5,801,810) and Reeves (Visual imagery in backward masking, 1980) as applied to claim 1 above, and further in view of Polat et al (6,876,758 B1).

Teicher et al, Roenker and Reeves, as discussed above, disclose a means for measuring responses to a visual stimulus and comparing the results to a reference, but fail to disclose the reference profile is generated from data that are selected from the group consisting of data obtained from a reference group comprising cognitively normal individuals and data previously generated by the user.

Polat et al disclose a means for improving a user's visual perception and further disclose the reference profile is generated from data that are selected from the group consisting of data obtained from a reference group comprising cognitively normal individuals and data previously generated by the user. See Column 9, lines 22-30.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the combination of Teicher et al, Roenker and Reeves to include the use of data obtained from a reference group comprising normal individuals, as per the teachings of Polat et al, since it would provide a means of comparison

between the acquired results and results from normal people to determine if the user is suffering from any cognitive impairment.

7. Claims 1, 2, 3, 9-15 and 17-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Polat et al (6,876,758 B1) in view of Roenker (5,801,810) in view of Reeves (Visual imagery in backward masking, 1980).

Polat et al, as discussed above, disclose a means for improving a user's visual perception and further disclose presenting a visual test stimulus to the user for a predetermined test stimulus exposure duration; measuring a response from the user, the response providing information about the user's perception of a characteristic of the stimulus, and a response time taken for the user to respond; repeating the steps to develop a user profile; comparing the user profile to a reference profile; repeating the steps for a range of predetermined test stimulus exposure durations; the repetitions are separated by a uniform time interval; the reference profile is generated from data that are selected from the group consisting of data obtained from a reference group comprising cognitively normal individuals and data previously generated by the user; the user has a choice of two different responses for responding to each test stimulus; one of two or more different test stimuli are presented to the user; each of the test stimuli are presented to the user an equal number of times; and a processing means for processing the response from the user to develop a user profile. See Column 5, lines 3-7 and 21-23; Column 6, lines 1-17; Column 9, lines 22-30; and Column 12, lines 33-57.

Polat et al however fail to disclose masking the test stimulus by placing a mask over or in place of the entire visual test stimulus; presenting a focal point stimulus to the

user before presenting the visual test stimulus to the user; the predetermined test stimulus exposure duration is between 10 ms and 300 ms; the mask comprises at least one curved line; and a focal point presentation means for presenting a focal point stimulus to the user.

Roenker, as discussed above, discloses a means for testing visual attention capabilities of a person and further discloses masking the test stimulus by placing a mask over or in place of the entire visual test stimulus; presenting a focal point stimulus to the user before presenting the visual test stimulus to the user; the predetermined test stimulus exposure duration is between 10 ms and 300 ms; the mask comprises at least one curved line; and a focal point presentation means for presenting a focal point stimulus to the user. See Column 4, lines 20-58; and Column 6, lines 20-54.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the means of Polat et al to include the use of a mask, as per the teachings of Roenker, since it would provide a means of controlling the test stimulus exposure to the test subject, to acquire an accurate means of determining the response time.

Polat et al and Roenker however fail to disclose the mask is comprised of an image having at least one filled circle.

Reeves, as discussed above, discloses a means for applying a mask to a visual stimulus and further disclose the mask is comprised of an image having at least one filled circle. See at least Figures 2 and 3.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the combination of Polat et al and Roenker to include the use of a mask comprised of at least one filled circle, as per the teachings of Reeves, since a filled circle would not have the same contour as the test stimulus and thus prevent a contour interaction between the test stimulus and the mask to provide more accurate results from the test subject.

8. Claims 4, 6 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Polat et al (6,876,758 B1), Roenker (5,801,810) and Reeves (Visual imagery in backward masking, 1980) as applied to claim 1 above, and further in view of Teicher et al (2004/0002636 A1).

Polat et al, Roenker and Reeves, as discussed above, disclose a means for assessing impairment of a user, but fail to disclose calculating for each stimulus exposure duration an error rate that represents a proportion of responses which are inaccurate; the error rate comprises calculating a mean error (the calculated percentage represents a mean error); and calculating a mean response time.

Teicher et al, as discussed above, disclose a means for diagnosing akathisia and further disclose calculating for each stimulus exposure duration an error rate that represents a proportion of responses which are inaccurate; the error rate comprises calculating a mean error (the calculated percentage represents a mean error); and calculating a mean response time. See Paragraphs 0022 and 0030.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the combination of Polat et al, Roenker and Reeves to

include the calculation of a mean error rate, and a mean response time, as per the teachings of Teicher et al, since it would provide a means of determining the average error rate and response time for a plurality of test stimuli, to help diagnose visual or cognitive problems.

9. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Polat et al (6,876,758 B1), Roenker (5,801,810) and Reeves (Visual imagery in backward masking, 1980) as applied to claim 1 above, and further in view of Hongo et al (5,345,944).

Polat et al, Roenker and Reeves, as discussed above, disclose a means for assessing impairment of a user and providing an output, but fail to disclose an error rate curve.

Hongo et al, as discussed above, disclose a means for medical diagnosis and further disclose an error rate curve. See Figure 11.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the combination of Polat et al, Roenker and Reeves to include the use of an error rate curve, as per the teachings of Hongo et al, since it would provide an alternative means of outputting the acquired information regarding the error rate to an expert for analysis.

10. Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Polat et al (6,876,758 B1), Roenker (5,801,810), Reeves (Visual imagery in backward masking, 1980) and Teicher et al (2004/0002636 A1) as applied to claim 7 above, and further in view of Harrison et al (6,317,128 B1).

Polat et al, Roenker, Reeves and Teicher et al, as discussed above, disclose a means for testing a user to provide a medical diagnosis but fail to disclose a response rate curve.

Harrison et al, as discussed above, disclose a graphical user interface and further disclose a response rate curve. See Figure 12.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the combination of Polat et al, Roenker, Reeves and Teicher et al to include the use of a response rate curve, as per the teachings of Harrison et al, since it would provide an alternative means of outputting the acquired information regarding the response rate to an expert for analysis.

11. Claim 25 is rejected under 35 U.S.C. 103(a) as being unpatentable over Polat et al (6,876,758 B1), Roenker (5,801,810) and Reeves (Visual imagery in backward masking, 1980) as applied to claim 1, 18 or 20 above, and further in view of Harrison et al (6,317,128 B1).

Polat et al, Roenker and Reeves, as discussed above, disclose a means for testing a user to provide a medical diagnosis but fail to disclose a response rate curve.

Harrison et al, as discussed above, disclose a graphical user interface and further disclose a response rate curve. See Figure 12.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the combination of Polat et al, Roenker and Reeves to include the use of a response curve, as per the teachings of Harrison et al, since it

would provide an alternative means of outputting the acquired information regarding the response to an expert for analysis.

Response to Amendment

12. The declaration under 37 CFR 1.132 filed May 2, 2011 is insufficient to overcome the rejection of claims 1-14, 16 and 18-25 based upon the prior art rejection of the claims under Teicher et al, Roenker and Jiang et al, and the alternative rejection of Polat et al, Roenker and Jiang et al as set forth in the last Office action because: the submitted declaration was signed by only one of the three listed inventors; and there is no statement the inventor read and understood the Office Action that was mailed on June 2, 2010 (the statement of "I have reviewed..." in Section 4 of the declaration is insufficient to state the Applicant read as well as understood the prior art rejection).

Response to Arguments

13. Applicant's arguments, filed May 2, 2011, with respect to the rejection(s) of claim(s) 1-14, 16 and 18-25 under the prior art of Jiang et al have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Reeves.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian Szmal whose telephone number is (571)272-4733. The examiner can normally be reached on Monday-Friday, with second Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Max Hindenburg can be reached on (571) 272-4726. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Brian Szmal/
Primary Examiner, Art Unit 3736